

## Abstract

The present invention relates to a gasoline generator, belongs to the technical field of motive power equipment. Wherein the gasoline engine set in an enclosed case, a permanent magnet generator is mounted on the engine housing, handle tray mounted on the fore end surface of cool air suction cover, suction cover is joined to the engine housing handle tray, joined to the suction cover, together forms the main cooling air channel for the motive power. The present invention provides a simple, compact and rational structure. Air guide plate and the cool air suction cover envelop all the high temperature parts of the engine and the generator, exhaust pipe and muffler as a whole. Cool air sucked in by the suction fan provides specific and adequate cooling for the above units/parts and then exhausted out of chamber through outlet slots. Therefore the cooling system provides a rational cooling for the engine, ensuring effective cooling for the engine where it generates most heat (around the cylinders, exhaust pipes, oil case in engine bottom), thereby providing a highly efficient cooling for the engine.